FODDER FROM WASTE

POISON IN TOPS AND LEAVES OF SUGAR BEETS.

Gualle Acid Must Be Driven Out Before This Food May He Fed to Animals with Safety - Polson Makes Bones

Farmers who have raised sugar beets

often have wondered why the beet

heads and leaves which remain after harvest have had an injurious effect on the farm animals to which they have been fed. It would seem as if these parts of the beet, if cleansed from dirt, would make a good food for stock, and though the farmer often is impelled to leave the beet leaves and head on the ground to serve as fertilizer, yet the desire usually is stronger to feed the waste to the stock, for it is evident that the tops and leaves of the beet contain nutritive elements. But with a heavy raiser of sugar beets it is impossible to use more than a part of the by-products as fodder while they are still fresh, by far the greater part being spoiled by weathering, and often a third of the mass is lost by fermentation in the silo. It has been noticed, too, that stock fed regularly on these leaves and heads soon show signs of stomach troubles, and if the food is persisted in, by some strange provision of nature the animal is likely to break its legs. These things are due to the surprising fact that the tops and leaves of sugar beets contain an active poison, nothing less than the deadly exalic acid. When dried the leaves contain from 4 to 6 per cent of this poison, and even when fermented the substance holds from 3 to 3 per cent. There is a curious chemical fact involved in the action of the bones of the oxalic acid taken in this way. Oxalle seid is soluble in potassium and sodium, and in combination with these elements it exists in the beet leaves. But oxalicacid has an affinity for lime, and is insoluble in it, and when it is combined with lime in the system of the animal, it is slightly poisonous, if at all, being insoluble; and therefore leaving the body. Now, if sufficient carbonate of lime is added to the food, all is well with the animal. But if the food contains an insufficient quantity of lime, the deficiency is supplied from the lime contained in the body of the animal, that is, from the phosphate of lime which gives strength to the bones. The natural result of this is to make the bones of the animal poor in lime, fragile, and easy to break. And thus it comes that the feeding to an animal of beet leaves unmixed with lime is likely to result in the animal breaking its legs on the least strain. But the addition to the leaves, either dry or fermented, of carbonate of lime adds to the earthy impurities of the food, and this drawback is so great as to necessitate the finding of some other way of eliminating this poison. This way has been found by a German farmer named Wuestenhagen, who lives near Stassfurt. By experimenting with this and that process he found a method of treating the beet tops and avallable as healthful fodder, but even the small amount of sugar which they contain may be saved. His process consists of these five steps: Cleansing of the leaves from earth and dirt; almost complete destruction of the oxalle acid contained in the leaves; conservation of sugar contained in the heads; slicing of the entire material; and, finally the drying and storing of covervis patented. The tops and leaves are left on the field which time they lose from 80 to 85 per cent of the water they contain. At the same time the leaves shrink so that when they are loaded on the wagon and well shaken by the workmen a great part of the earth falls off. The material is then put into a re-volving drum supplied with sleves, into which hot air streams. This dries the particles of earth and sand, and almost all fall through the sieve. These proceedings are followed naturally by an almost complete decomposition of the oxalic acid. The dry material resulting from this process contains 14 per cent, and more of augar, while the percentage of oxalic acid has been reduced to 0.42 per cent. -New York Press.

How Figs Are Prepared. After figs have been collected they are dipped in boiling brine, and then dried on trays for from two to four days, according to the weather. The dipping is supposed to bring the sugar to the surface and hasten the drying. After being dried the figs are pinced in "swest boxes" holding 2,000 pounds each, where they remain for two weeks. Then they are washed in cold salt water to remove all dirt, and are packed by women and girls in halfpound, one-pound and ten-pound boxes, in layers, being split preliminarily with a short-bladed knife.

Population and Representation.

The population of Scotland, as revealed by the new census, now exceeds that of Ireland by 15,411, the figures being, for Scotland, 4,471,957, and for Ireland, 4,456,546. Nevertheless, Scotland, which is enormously the richer country, has only seventy-two members, while Ireland has 103. England contributes 80 per cent of the revenue, and has little more than 70 per cent of the representation.-Exchange.

Hospitals for Contagious Diseason, The Connecticut Board of Health argues that every town should have a hospital where contagious disease patlents can be isolated and receive proper attention. In 693 hospital cases of typhoid fever, for instance, there were less than 7 per cent of deaths, while in 1,163 cases under private treatment there was a mortality of 20 per cent.

SQUATS IN THE BIG MUDDY. Capt Streeter of Chicago Has Imitator

in Kansas City. Captain Streeter, the famous squatter of the north shore, has an imitator in Kansas City. For the Miscourl town, as well as Chicago, has a shifting water front, as the Missouri river has an uncanny habit of shifting its course frequently, anbmerging what has been dry land in the past and creating real estate where once there was naught but muddy water. from 1857, when he discovered the island and took up his residence upon it, d'Affaires, Later the government came along looking for a place to establish reserthe point of the bayonet to one corner of the island, where he erected a stockade and bade defiance to the sol- | wittlest young women of the diplomat-At that time the island was much larger, but the Missouri river seemed to resent the presence of the soldiers as much as did Mensing, and from that date began to eat the land away by slow degrees until only about three acres remained. But the three acres were those where Mensing had erected his stockade. He concluded that Providence was with him. The soldiers had no further use for the island and have been withdrawn, Then the river began industriously putting the earth back again, and in due course the three acres grew to 130. About this time the prospective value of the land was recognized, and proceedings were begun in the interior department to have the island declared a public reservation. This action was defeated. Then came a mysterious corporation called the East Kansas City Land Company, which tried to prove to the interior department that the tract had been ceded to it a long

BUCHANAN NEVER MARRIED. First Bachelor Elected to the Presi-

while ago. The case has just been

argued, and it is confidently predict-

company. So Mr. Mensing now be-

iency Had a Romance. bachelor elected to the presidency, was of production and consumption will deliberately given himself to a life of our population always shall be tarmcelibacy," writes William Perrine in ers, Professor Bailey holds that the Lancaster, Pa., he had loved Miss Coleman, a beautiful daughter of a citizen of that town. They had been engaged Bailey declares that fully half the ento be married when one day he was surprised to receive from her a request | the several states are devoted to the to release her from the promise, Acthe separation originated in a misunderstanding on the part of the lady, who was unusually sensitive, over some small matter exaggerated by gidleaves so that not only were they dy and indiscreet tongues. Soon after the estrangement she was sent to Philadelphia, and there died suddenly. Throughout the rest of his life or neartragedy. He would only say that it had | changed his hopes and plans, and had led him more deeply than ever into politics as a distraction from his grief, long after he had retired permanently to private life, he about ten days to wither, during called attention to a package containing, he said, the papers and relics which would explain the causes of his youthful sorrow, and which he preserved evidently with the idea of revealing them before his death. But when he died, and his will was read, It was found that he had directed that the package should be burned without being opened, and his injunction was

Twins Remarkably Alike.

Ray and Roy Burges are two remarkable twin brothers lately living in Auburn, this state. They are seventeen years old, five feet nine inches in height, weigh 144 pounds each and are so much alike that Roy has immigrated to Keene, N. H., to acquire an identity. Even the Bertillon measurements failed to distinguish them. except by a few scars.-New York

Enormous Imports of Milk. The total imports of foreign milk and cream for the four weeks of April into the United Kingdom were 640 hundredweight of fresh milk in cana or drums, 340 hundredweight of cream, 397 hundredweight of condensed milk and 88,350 hundredweight of condensec milk. The imports of the last named article in 1900 were of the vaiue of £1,743,475.

Entirely with the Lord. The pastor of a negro church in a rural district put up this petition re-cently: "Lawd, of you thinks we her hed rain enough, piease tell de rain ter quit rainin', but ef you don't think we's had enough please fergive us fer lookin' glum, en growlin'!"-Atlanta Constitution.

Memorial to Cutton Gin Inventor. A movement has been started in Georgia to perpetuate the memory of Eli Whitney by converting into a country club the scene of his labors near Augusts, where he perfected his cotton gin. An organization has been perfected, and a charter for the club

Owners of the cotton mills in Columbia, S. C., have agreed to maintain kindergartens for the children of their employes.

AS THE WORLD REVOLVES

Rostand's 5 ster.

Mme. de Margerle, the brilliant and beautiful sister of Edmond Rostand. the author of "Cyrano de Bergerac" and "L'Aiglon," is now on her way to America to take up her residence in Washington. Her husband, M. de Marrushing onward to the gulf. In the gerie, one of the most promising young channel of the river, just a stone's diplomats in the service of France, arthrow from the foot of one of Kansas rived in Washington about a month City's chief business streets, is an isi- ago to assume the duties of First Secand of about 130 acres, which John H. | retary of the French Embassy. Dur-Mensing claims to own. His claim dates ing M. Cambon's absence in Europe, M. de Margerie will act as Charge

Mms, de Margerie, whose mother was a Spaniard, has inherited from vations, and decided to take this. her her dark beauty of color and fea-Mensing resisted, and was driven at ture, with an expression of indefinable charm. She possesses also the reputation of being one of the brightest and



ie corps. During the summer M and Mme. de Margerie will occupy a cottage at Manchester-by-the-Sea. In the autumn they will reside in Washington at 1753 N street, the former boine ed that the decision will be against the of Colonel Tyler, and where later the season they will entertain M. Alslieves that he has the first claim, untand, who it is needless to say, will so der squatters' title, to land valued at the social lion of the day.

Farmers of the Future.

Professor L. H. Balley of Cornell university estimates that more than half the people of the United States "Mr. Buchanan, who was the first live on farms. As the proper ba'at ce 65 years of age when elected, and had make it necessary that at least ball the Ladies' Home Journal. "In the equeation of these farmers is one of days when he was a young lawyer of the great problems now before the world. In an article in the July comber of the World's Work, Professor ergies of the agricultural colleges in mechanic arts and that the amount of cording to Mr. George Ticknor Curtis money and energy devoted directly to agricultural education is small when compared with that expended on other professional and technical education.

senutor Kyle . South Daleta James H. Kyle, whose illness was reported last week, is serving his second term as United States senator ly half a century, Mr. Buchanan is not from South Dakota, having been first known to have revealed to anybody elected in 1891 as an independent Ducthe circumstances of this romantle feg his present term he has generally essed with the republicans. Before go



UNITED STATES SENATOR 2. M. KYLE. ing into politics he was a Printy-

terian clergyman. He was born at Menia, O., in 1854.

The Gold Output.

From advance sheets furnished by The Engineering and Mining Jou. and the greatest of gold and silver proproduction Australasia dropped to a stars of prominence will appear. first to second place and the Transvani, which beat this country's outsit in 1899, fell far to the rear, owing to the stoppage of mining operations ty the war. The following table indicates the relative position of the countries named except the Transvaal, whose record last year puts it below some of the minor producers which are not mentioned: Fine ounces. Value. ...3.781,310 \$78,159,874

United States 3,781,310	\$78,159,674
Australiasia3,554,286	73,467,110
Canada	27,916,752
Russia	23,090,861
Transvaal 348,760	7,208,069
1899-	
United States 3,391,196	\$70,095,021
Australasia 3,810,130	78,755,371
Canada	21,049,736
Russia	
Transvaal3,529,826	
It is likely that Russia p	coduces far

1900-

more gold than is reported and would hold first place were the bullion production instead of the colnage production given. While gold is being produced at this rate and made into money there can be no hard times,

The Weekly Panorama.

The Problem of Coeducation. In all that is said at university commencements this year nothing will merit more serious attent on than the references to corducation which occur in the annual report read by Dr. Boabright at Northwestern. The Evanston institution is not one from which we should expect to hear any coubts as to the advisability of the system. It has been thorough'y committed to it. and one of its most conspicuous exemplars. Yet Dr. Bonbright exclaims: Is the system of coeducation in Northwestern University still on trial?

The facts here, as at Stanford, seem to show that it is a system which caunot be kept in a state of equil brium because the phenomena of the h'zh schools are repeated at the universitine. The latter tend to become girls solleges. In ten years, for example, the girls' attendance at Nor hwestern and increased from 36 per cent to nearly 50 per cent, and this year the e are more young women than your men in the graduating class. The gansral tendency has been incr ased by the polley of encouraging gifts for dormitories for the young women in preference to the young men, and Dr. Honbright suggests that the girls' enrollment should be limited by the capacity of the dormitories.

A Sitled Scientist.

Lord Dunmore, who crossed the Atlantic to attend the grand convocation in Boston of the Christian Science "Mother Church," is the most intrepid traveler of whom the British perrage boasts, and he looks it. He is a etern



rugged, grizzled man of about 58, with a big bushy beard, a hard and rather fierce mouth, and a chin that makes him do anything and go everywhere He lost an eye through an acciden during a shoot at the late Lord Levat's place, and this adds somewhat to his washbuckling appearance. great journey was to the Pamirs, here he shot the famous Ovispoil. His adventures in this strange land he told in a book. Lord Dunmere has one son, Lord Fincastle, who wears the V. C. for an act of hereism during the last Indian frontier war.

To Give Novel Fete. The Duchess of Sutherland is one member of the English nobility who proposes to throw off the shackles of mourning for the dead queen. Of course charity will be the excuse, but London ociety will be none the less please and relieved for all of that. The Duchess has arranged to give a great fete at Stafford House on June 26, the proceeds of which will go to the Life



boat Saturday fund, a charity that has suffered considerably since the Boer war began. Tickets will cost \$15 each The 'mber of guests will be limited it appears that the United States was to 1,200. The fete will include a performance of "The Comedy of Errors' ducers during the year 1900. In gold and a concert, at both of which only

> Language in the Philippines. It was first reported that Spanish was to be the language of the Fillpino courts for five years, but Judge Taft's code has been amended on mation of Mr. Ide so that both Spanish and English may be used in court pro ceedings, and the records must be kept in both. This modification was desirable because the language of the government which controls the country should appear in all the official records, but any forcible atterpt to make English the language of the people would certainly end in failure and a modification under gentler influences will require years for its accomplishment. Though the Spanlards were in possession of the islands for three centuries and more, Spanish had not become the universal language of the natives when the Spanish rule was ter minated. There were several different languages and between twenty and thirty different dialects, and many of the people knew no Spanish at all. Time had simply sufficed to make it common near the seats of government.

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Mrs. Winslow's Soothing Syrup. bildren tecthing, softens the gums, reduces for nation, sliars pain, cures wind colle. 25c a beste-

"I think we had better call baby Ou-wer," said Mrs. Shaw. Her husband ejac-ulated; "O Shaw!"

Hall's Catarrh Cure Is taken internally. Price, 75c.

"You can't believe more than half you hear," "Which half of what you tell me shall I believe?"

Piso's Cure cannot be too highly spoken of as cough cure.-J. W. O Buren, 322 Third Ave., N., Minneapolis, Minn., Jan. 0, 1900.

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thickened cutteders, to cool and riestase the
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